

Title (en)

Process for the preparation of hyaluronic acid by fermentation with streptococcus

Title (de)

Verfahren zur Herstellung von Hyaluronsäure durch Fermentation mit Streptococcus

Title (fr)

Procédé de préparation d'acide hyaluronique par fermentation avec streptococcus

Publication

EP 0694616 A3 19980805 (EN)

Application

EP 95111587 A 19950724

Priority

- IT MI941594 A 19940726
- JP 25002395 A 19950823

Abstract (en)

[origin: EP0694616A2] A process for the preparation of hyaluronic acid by submerged culture of a microorganism of the genus Streptococcus is described.

IPC 1-7

C12P 19/26; **C12N 1/20**

IPC 8 full level

C12N 1/20 (2006.01); **C12P 19/26** (2006.01); **C12R 1/46** (2006.01)

CPC (source: EP)

C12N 1/205 (2021.05); **C12P 19/26** (2013.01); **C12R 2001/46** (2021.05)

Citation (search report)

- [X] EP 0400300 A1 19901205 - MEDCHEM PRODUCTS INC [US]
- [X] WO 9208799 A1 19920529 - FERMENTECH LTD [GB]
- [X] US 5023175 A 19910611 - HOSOYA HIDEO [JP], et al
- [X] US 5316926 A 19940531 - BROWN KAREN K [US], et al
- [X] KJEMS E. & LEBECH K.: "Isolation of hyaluronic acid from cultures of Streptococci in a chemically defined medium.", ACTA PATHOLOGICA MICROBIOLOGICA SCANDINAVICA, SECTION B, vol. 84, 1976, COPENHAGEN, DK, pages 162 - 164, XP002051886

Cited by

CZ301306B6; CN112592849A; CN112375160A; WO2013030348A1; US6489467B1; WO2008014787A1; WO2014100837A1; EP2216412A2; WO2012014180A1; WO0044925A1; US9109051B2; US9150873B2; EP1772052A1; EP2213315A1; WO2010086421A1; US8093036B2; US8137951B2; US8574886B2; WO2021020995A1; EP2985027B1; EP2985019B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0694616 A2 19960131; **EP 0694616 A3 19980805**; IT 1271001 B 19970526; IT MI941594 A0 19940726; IT MI941594 A1 19960126; JP H0956394 A 19970304

DOCDB simple family (application)

EP 95111587 A 19950724; IT MI941594 A 19940726; JP 25002395 A 19950823